

<b>Substitute for form 1449A/PTO (modified)</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)  Page 1 of 5	<b>Application Number</b>	10/590210
	<b>Filing Date</b>	February 22, 2005
	<b>First Named Inventor</b>	Boone, Mary R.
	<b>Confirmation Number</b>	4407
	<b>Attorney Case Number</b>	59404US004

U.S. Patent Documents						
Exam. Init.*	Cite No.	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Doc. Number-(Kind Code if Known)				
	A1	US-	2002/0138049 A1	09/26/02	Allen et al.	
	A1	US-	2002/0169416 A1	11/14/02	Gonnelli et al.	
	A2	US-	2002/0177858 A1	11/28/02	Sherman et al.	
	A3	US-	2002/0138049 A1	12/26/02	Mikszta et al.	
	A1	US-	2002/045859 A1	04/18/02	Gartstein et al.	
	A5	US-	2002/053756 A1	05/09/02	Powell et al.	
	A6	US-	2002/082543 A1	06/27/02	Park et al.	
	A7	US-	2002/095134 A1	07/18/02	Pettis et al.	
	A8	US-	2003/0045837	03/06/03	Delmore et al.	
	A9	US-	2003/0078549 A1	04/24/03	Stupar et al.	
	A10	US-	2003/0093040 A1	05/15/03	Mikszta et al.	
	A11	US-	2003/0095582 A1	05/22/03	Ackley	
	A12	US-	2003/0135167 A1	07/17/03	Gonnelli	
	A13	US-	2003/0135201 A1	07/17/03	Gonnelli	
	A14	US-	2003/0148401 A1	08/07/03	Agrawal et al.	
	A15	US-	2003/0181936 A1	09/25/03	Trautman et al.	
	A16	US-	2003/0199810 A1	10/23/03	Trautman et al.	
	A17	US-	2004/0049150 A1	03/11/04	Dalton et al.	
	A18	US-	2004/0060902 A1	04/01/04	Evans et al.	
	A19	US-	2004/0077994 A1	04/22/04	Lastovich et al.	
	A20	US-	2004/0106904 A1	06/03/04	Gonnelli et al.	
	A21	US-	2004/0176732 A1	09/09/04	Frazier et al.	
	A22	US-	2005/0025778 A1	02/03/05	Cormier et al.	
	A23	US-	2005/0049549 A1	03/03/05	Wong et al.	
	A24	US-	2005/0049625 A1	03/03/05	Shaya et al.	
	A25	US-	2005/0065463 A1	03/24/05	Tobinaga et al.	
	A26	US-	2005/0106226 A1	05/19/05	Cormier et al.	
	A27	US-	2005/0118388 A1	06/02/05	Kingsford	

<b>*Examiner:</b>	<b>Date Considered:</b>
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Page 2 of 5

<b>Application Number</b>	10/590210
<b>Filing Date</b>	February 22, 2005
<b>First Named Inventor</b>	Boone, Mary R.
<b>Confirmation Number</b>	4407
<b>Attorney Case Number</b>	59404US004

## U.S. Patent Documents

Exam. Init.*	Cite No.	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Doc. Number-(Kind Code if Known)				
	A28	US-	2005/0137525 A1	06/23/05	Wang et al.	
	A29	US-	2005/0261631 A1	11/24/05	Clarke et al.	
	A30	US-	2007-0083151	04/12/07	Carter	
	A31	US-	2619962	12/02/52	Rosenthal	
	A32	US-	3034507	05/15/62	McConnell et al.	
	A33	US-	3072122	01/08/63	Rosenthal	
	A34	US-	3074403	01/22/63	Cooper et al.	
	A35	US-	3123212	03/03/64	Taylor et al.	
	A36	US-	3136314	06/09/64	Kravitz	
	A37	US-	3221740	12/07/65	Rosenthal	
	A38	US-	3246647	04/19/66	Taylor et al.	
	A39	US-	3678150	07/18/72	Szumski et al.	
	A40	US-	3905371	09/16/75	Stickl et al.	
	A41	US-	3964482	06/22/76	Gerstel et al.	
	A42	US-	4237906	12/09/80	Havstad et al.	
	A43	US-	4304241	12/08/81	Brennan	
	A44	US-	4489033	12/18/84	Uda et al	
	A45	US-	4515543	05/07/85	Hamner	
	A46	US-	5152917	10/06/92	Pieper, et al	
	A47	US-	5250023	10/05/93	Lee et al.	
	A48	US-	5262128	11/16/93	Leighton et al.	
	A49	US-	5342737	08/30/94	Georger, Jr. et al.	
	A50	US-	5457041	10/10/95	Ginaven et al.	
	A51	US-	5611806	03/18/97	Jang	
	A52	US-	5657516	08/19/97	Berg et al.	
	A53	US-	5658515	08/19/97	Lee et al.	
	A54	US-	5879326	03/09/99	Godshall et al.	
	A55	US-	5983136	11/09/99	Kamen	

\*Examiner:

Date Considered:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Page 3 of 5

<b>Application Number</b>	10/590210
<b>Filing Date</b>	February 22, 2005
<b>First Named Inventor</b>	Boone, Mary R.
<b>Confirmation Number</b>	4407
<b>Attorney Case Number</b>	59404US004

## U.S. Patent Documents

Exam. Init.*	Cite No.	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Doc. Number-(Kind Code if Known)				
	A56	US-	6,451,240 B1	09/17/02	Sherman et al.	
	A57	US-	6,841,333	01/11/05	Lamanna et al.	
	A58	US-	6021559	02/08/00	Smith	
	A59	US-	6050988	04/18/00	Zuck	
	A60	US-	6076248	06/20/00	Hoopman, et al	
	A61	US-	6090790	07/18/00	Eriksson	
	A62	US-	6091975	07/18/00	Daddona, et al	
	A63	US-	6132755	10/17/00	Eicher et al.	
	A64	US-	6230051B1	05/08/01	Cormier et al.	
	A65	US-	6248281	06/19/01	Abe et al.	
	A66	US-	6256533 B1	07/03/01	Yuzhakov et al.	
	A67	US-	6312612 B1	11/06/01	Sherman et al.	
	A68	US-	6322808 B1	11/27/01	Trautman et al.	
	A69	US-	6334856 B1	01/01/02	Allen et al.	
	A70	US-	6379324 B1	04/30/02	Gartstein et al.	
	A71	US-	6451240 B1	09/17/02	Sherman et al.	
	A72	US-	6454755 B1	11/24/02	Godshall	
	A73	US-	6503231 B1	01/07/03	Prausnitz et al.	
	A74	US-	6532386 B2	03/11/03	Sun et al .	
	A75	US-	6533949 B1	03/18/03	Yeshurun et al.	
	A76	US-	6551849 B1	04/22/03	Kenney	
	A77	US-	6565532 B1	05/20/03	Yuzhakov et al.	
	A78	US-	6591124 B2	07/08/03	Sherman et al.	
	A79	US-	6595947 B1	07/22/03	Miksza et al.	
	A80	US-	6603998 B1	08/05/03	King et al.	
	A81	US-	6605332 B2	08/12/03	Calhoun et al.	
	A82	US-	6652478 B1	11/25/03	Gartstein et al.	
	A83	US-	6663820 B2	12/16/03	Arias et al.	

\*Examiner:

Date Considered:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Page 4 of 5

<b>Application Number</b>	10/590210
<b>Filing Date</b>	February 22, 2005
<b>First Named Inventor</b>	Boone, Mary R.
<b>Confirmation Number</b>	4407
<b>Attorney Case Number</b>	59404US004

## U.S. Patent Documents

Exam. Init.*	Cite No.	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Doc. Number-(Kind Code if Known)				
	A84	US-	6686299 B2	02/03/04	Montemagno et al.	
	A85	US-	6713291 B2	03/30/04	King et al.	
	A86	US-	6743211 B1	06/01/04	Prausnitz et al.	
	A87	US-	6770480 B1	08/03/04	Canham	
	A88	US-	6797276 B1	09/28/04	Glenn et al.	
	A89	US-	6835184 B1	12/28/04	Sage et al.	
	A90	US-	6881203 B2	04/29/05	Delmore et al.	
	A91	US-	6899838 B2	05/31/05	Lastovich	
	A92	US-	6908453 B2	06/21/05	Fleming et al.	
	A93	US-	6931277 B1	08/16/05	Yuzhakov et al.	
	A94	US-				
	A95	US-				
	A96	US-				

## Foreign Patent Documents

Exam. Init.*	Cite No.	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation (Check if yes)
		Ctry. Code	Number-KindCode (if known)				
	B1	EP	0 407 063 A1	01/09/91			X
	B1	WO	96/10630 A1	04/11/96			X
	B2	WO	00/09184 A1	02/24/00			X
	B3	WO	01/36037 A2	05/25/01			X
	B1	WO	02/072189 A	09/19/02	Proctor & Gamble		
	B5	WO	05/65765	07-21-2005	Carter		
	B6	WO	2004/008248 A	01/22/04			
	B7	WO	2004/009172	01/29/04	3M IPCO		
	B8	WO	2005/051455 A2	06/09/05			X

\*Examiner:

Date Considered:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Information Disclosure Statement)

<b>Substitute for form 1449A/PTO (modified)</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)  Page 5 of 5	<b>Application Number</b>	10/590210
	<b>Filing Date</b>	February 22, 2005
	<b>First Named Inventor</b>	Boone, Mary R.
	<b>Confirmation Number</b>	4407
	<b>Attorney Case Number</b>	59404US004

OTHER DOCUMENTS			
Exam. Init.*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation (Check if yes)
	C1	C. Gornik, H. Bleier, "Fehlerfreie Mikrostrukturen" Kunstmstoffe, Oct 2001 Pages 104-109, XP002329901	
	C2	Edwards, T. et al.; "Rapid Tooling Using SU-8 for Injection Molding Microfluidic Components"; Proceedings of SPIE, Vol. 4177 (2000) pps. 82-89	
	C3	Griss, P. et al; "Novel, Side Opened Out-of-Plane Microneedles for Microfluidic Transdermal Interfacing; IEEE; 2002; pps. 467-470	
	C4	Henry S. et al.; "Microfabricated Microneedles: A Novel Approach to Transdermal Drug Delivery"; Journal of Pharmaceutical Sciences; Vol. 87, No. 8, August 1998 pps. 922-925	
	C5	Kaushik, S et al.; "Lack of Pain Associated with Microfabricated Microneedles"; Anesth Analg; 2001, 92:502-504	
	C6	McAllister, D. et al.; "Microfabricated Microneedles for Gene and Drug Delivery"; Annu. Rev. Biomed. Eng.; 2000; 02:289-313	
	C7	McAllister, D. et al.; "Microfabricated Microneedles for transdermal delivery of macromolecules and nanoparticles: Fabrication methods and transport studies"; PNAS, 25 November 2003 Pages 13755-13760.	
	C8	McAllister, D. et al.; "Solid and Hollow Microneedles for Transdermal Protein Delivery"; Proceed. Int'l. Symp. Control. Rel. Bioact. Materi., 26; July 1999; Controlled Release Society, Inc.; pps. 192-193	
	C9	Trichur et al., "Development of Plastic Microneedles for Transdermal Interfacing Using Injection Molding Techniques", Micro Total Analysis Systems, 2002, Volume 1, 395-397.	
	C10	Weber, L. et al.; "Micro molding - a powerful tool for the large scale production of precise microstructures"; SPIE Vol. 2879; pps. 156-167	
	C11		

<b>*Examiner:</b>	<b>Date Considered:</b>
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	